

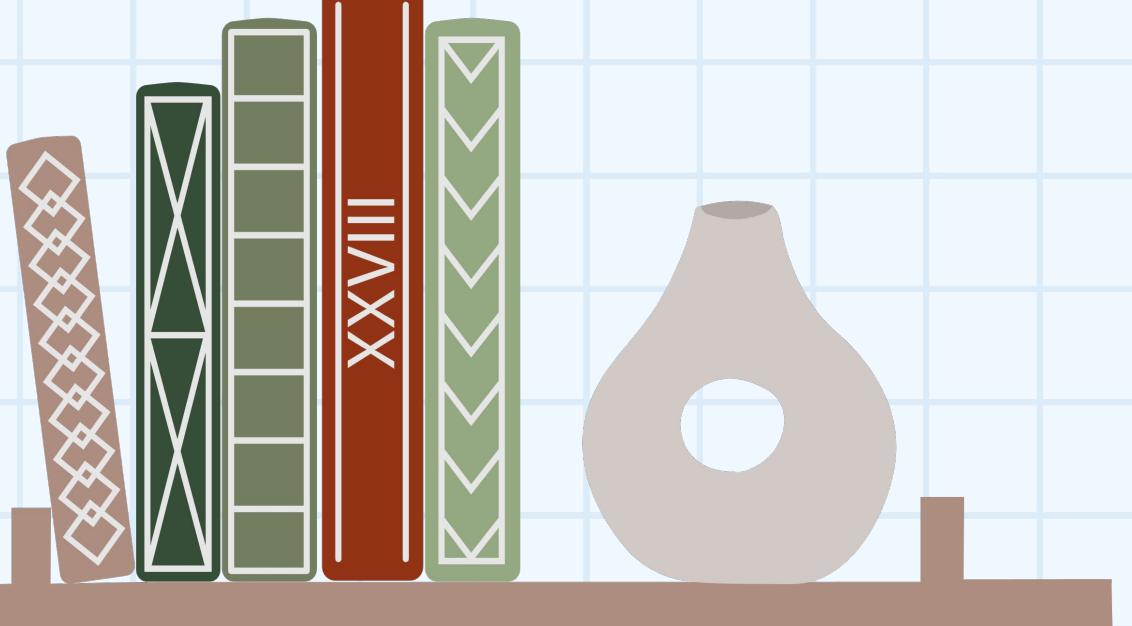
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BS./BSC.IN

Applied ai and Data Science

Basics of Data Analytics



Let's dive into and learn:



1

Introduction to Data Visualizations



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Data Visualizations



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- ‘A picture tell a thousand words.’
- Data Visualization is part art and part science.
- Should accurately convey the data. Must not mislead or distort.
- Should be aesthetically pleasing
- The challenge is to get the art right without getting the science wrong and vice versa.



Anscobme's Quartet

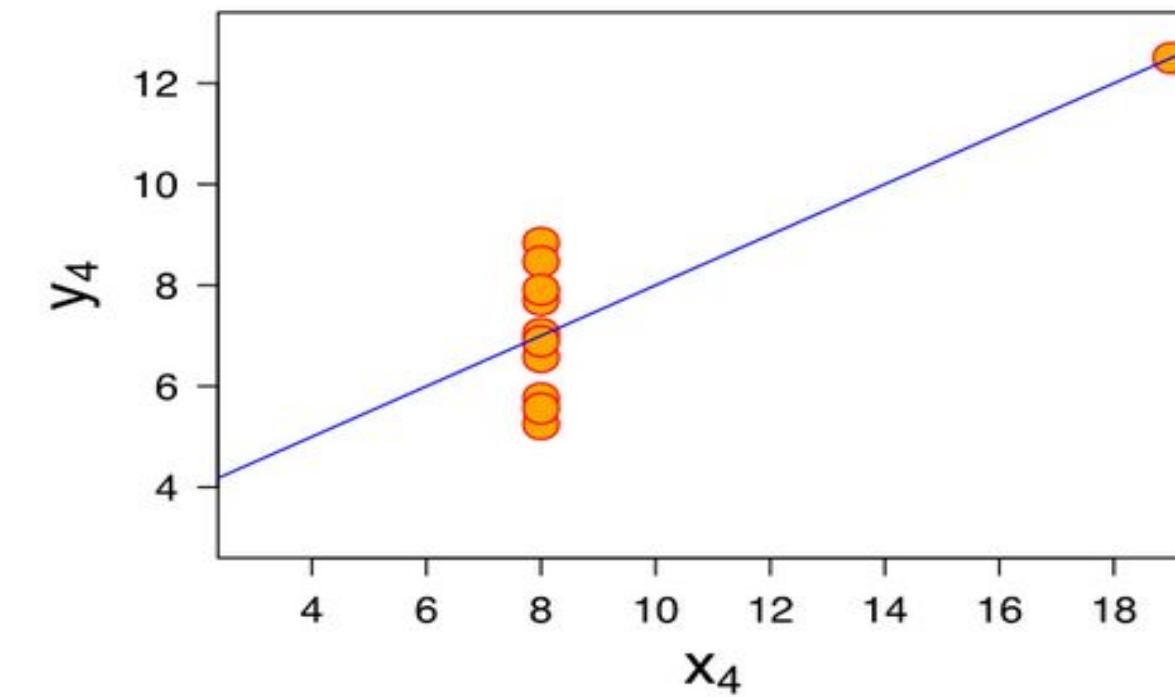
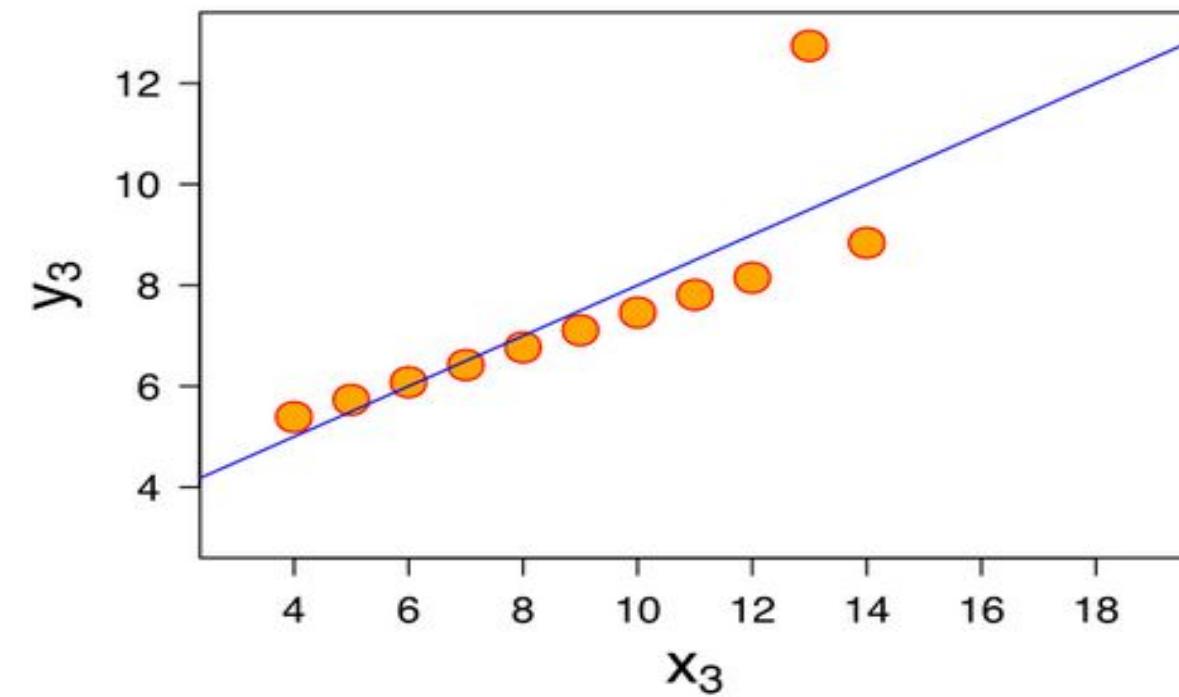
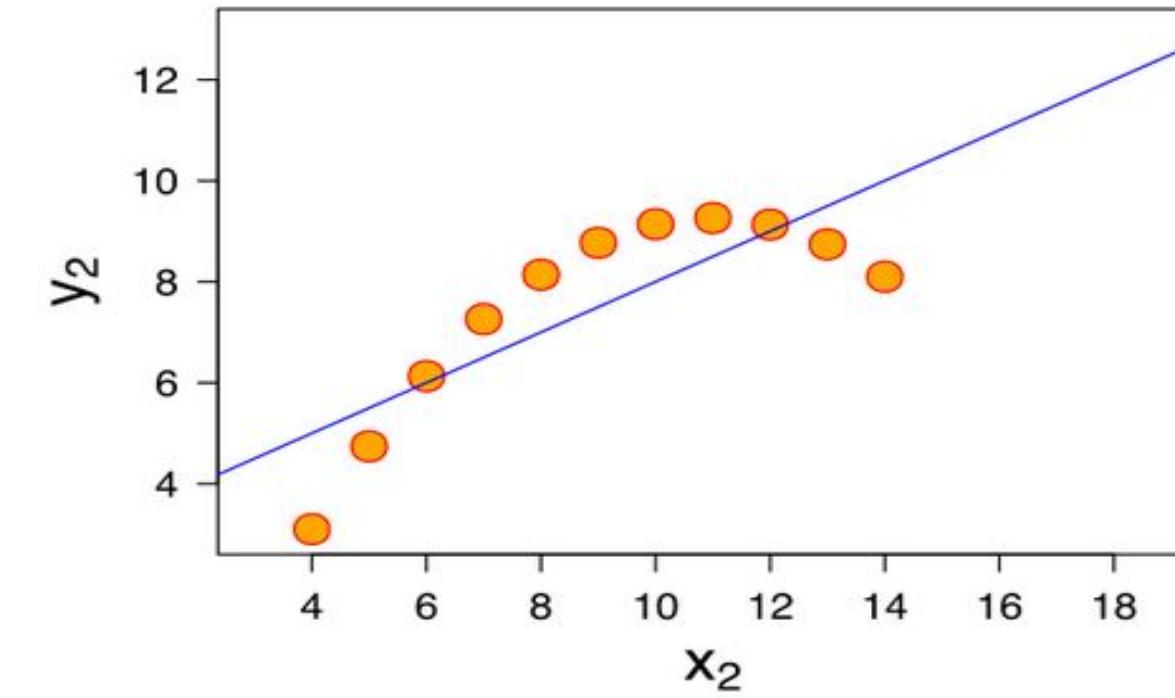
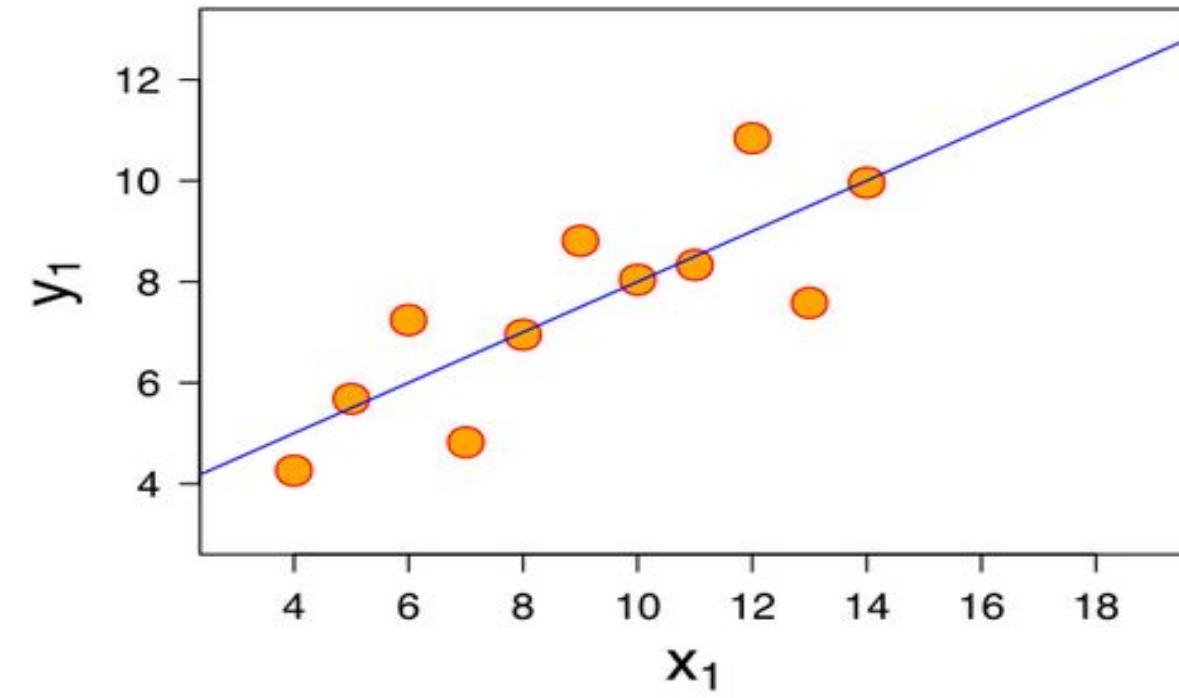
x1	y1	x2	y2	x3	y3	x4	y4	
10	8.04	10	9.14	10	7.46	8	6.58	
8	6.95	8	8.14	8	6.77	8	5.76	
13	7.58	13	8.74	13	12.74	8	7.71	
9	8.81	9	8.77	9	7.11	8	8.84	
11	8.33	11	9.26	11	7.81	8	8.47	
14	9.96	14	8.1	14	8.84	8	7.04	
6	7.24	6	6.13	6	6.08	8	5.25	
4	4.26	4	3.1	4	5.39	19	12.5	
12	10.84	12	9.13	12	8.15	8	5.56	
7	4.82	7	7.26	7	6.42	8	7.91	
5	5.68	5	4.74	5	5.73	8	6.89	
AVERAGE	9	7.50	9	7.50	9	7.5	9	7.50

Anscobme's Quartet



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Good Data Visualization

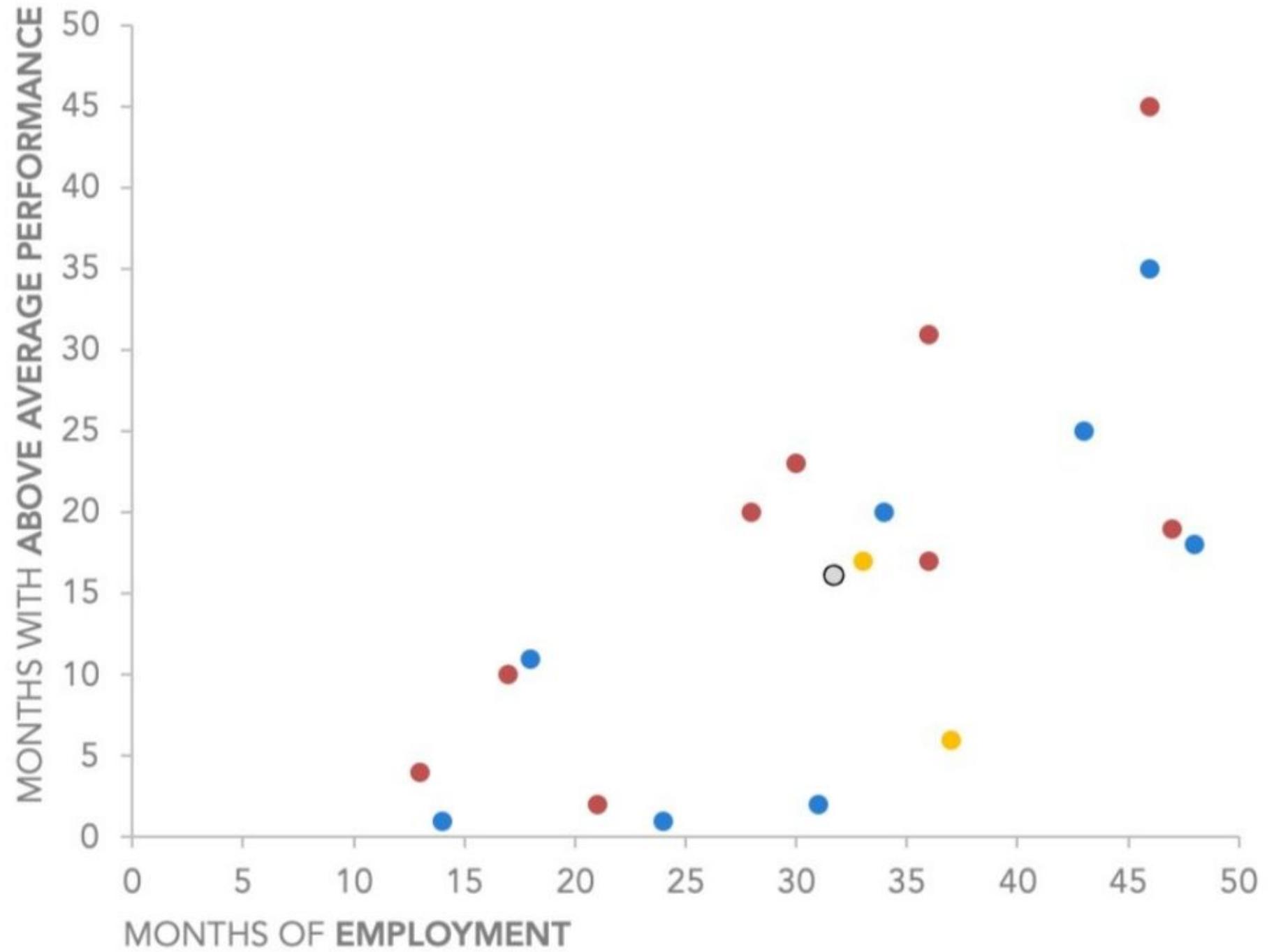


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Performance of analysts after pilot program

● United States ● Japan ● Canada



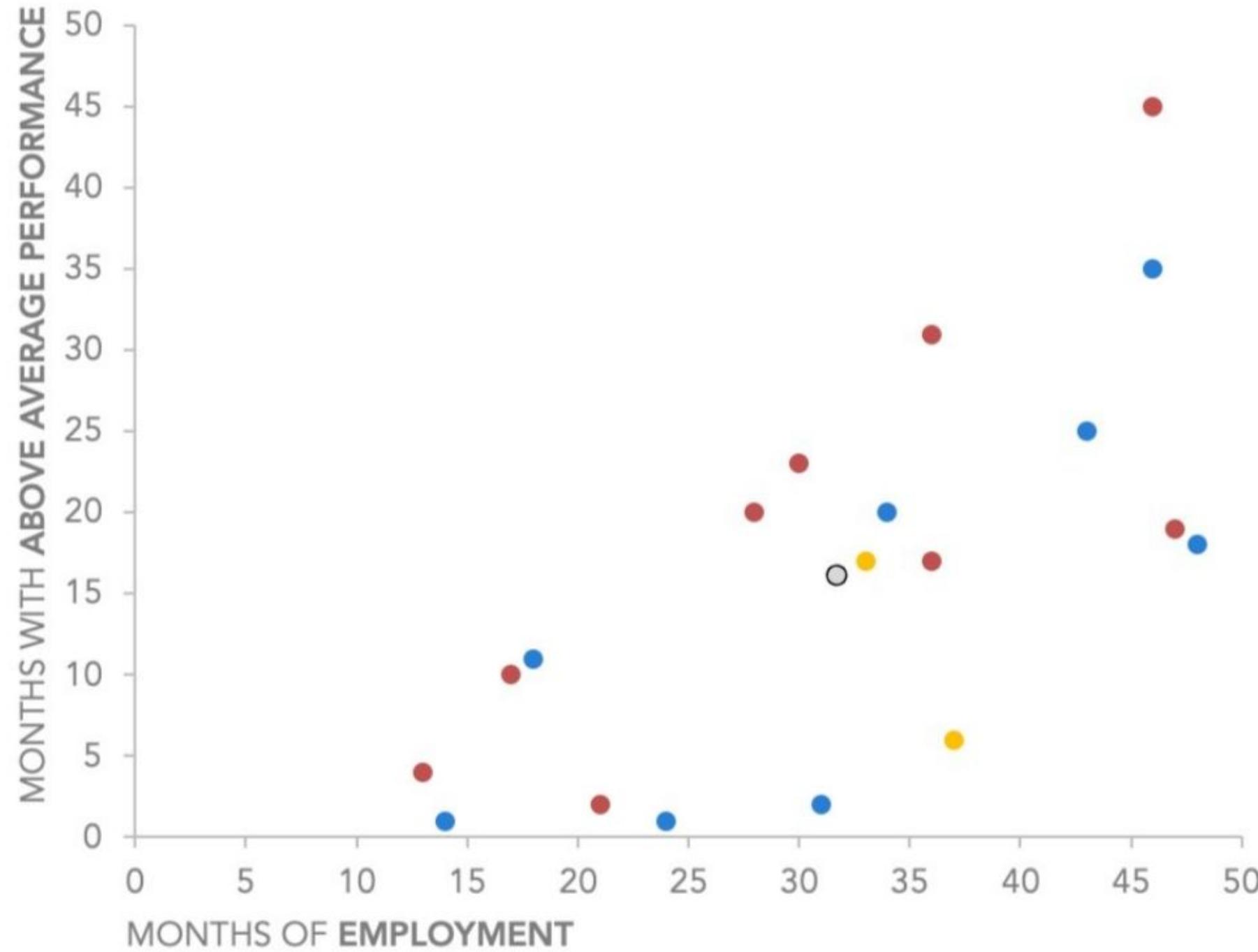


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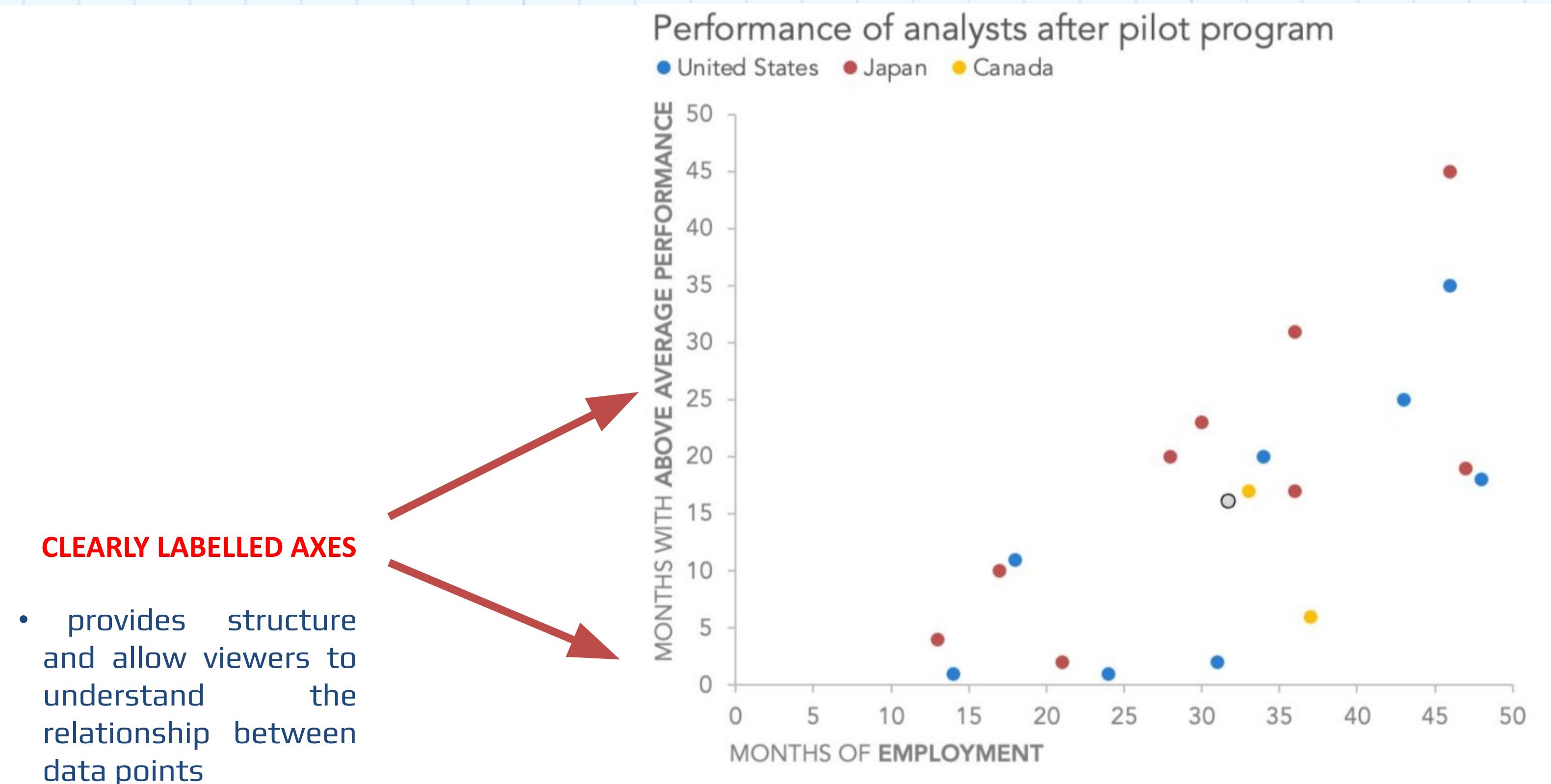
INFORMATIVE TITLE

- Informs the viewers about the purpose and context of the visualization.

Good Data Visualization



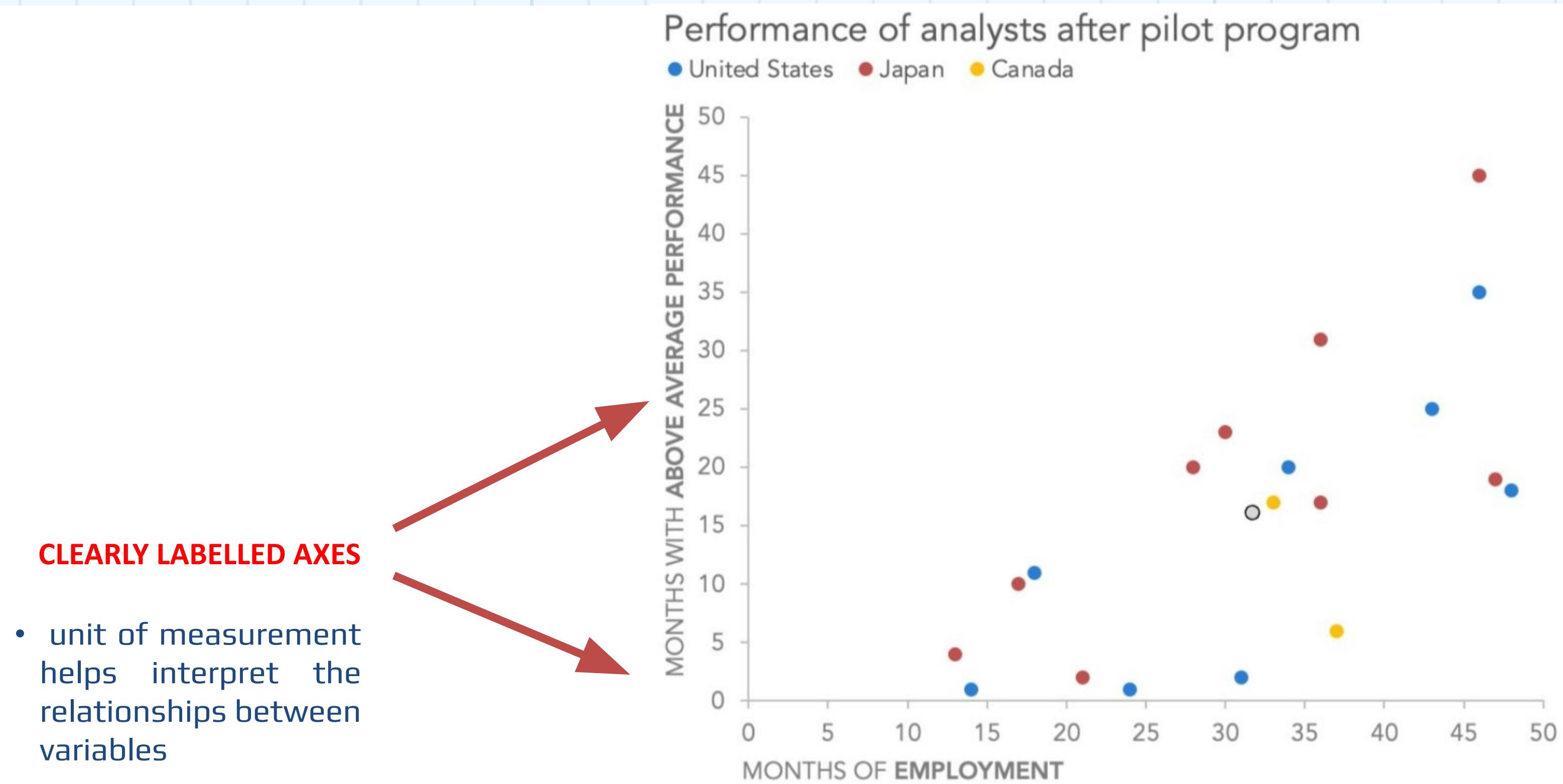
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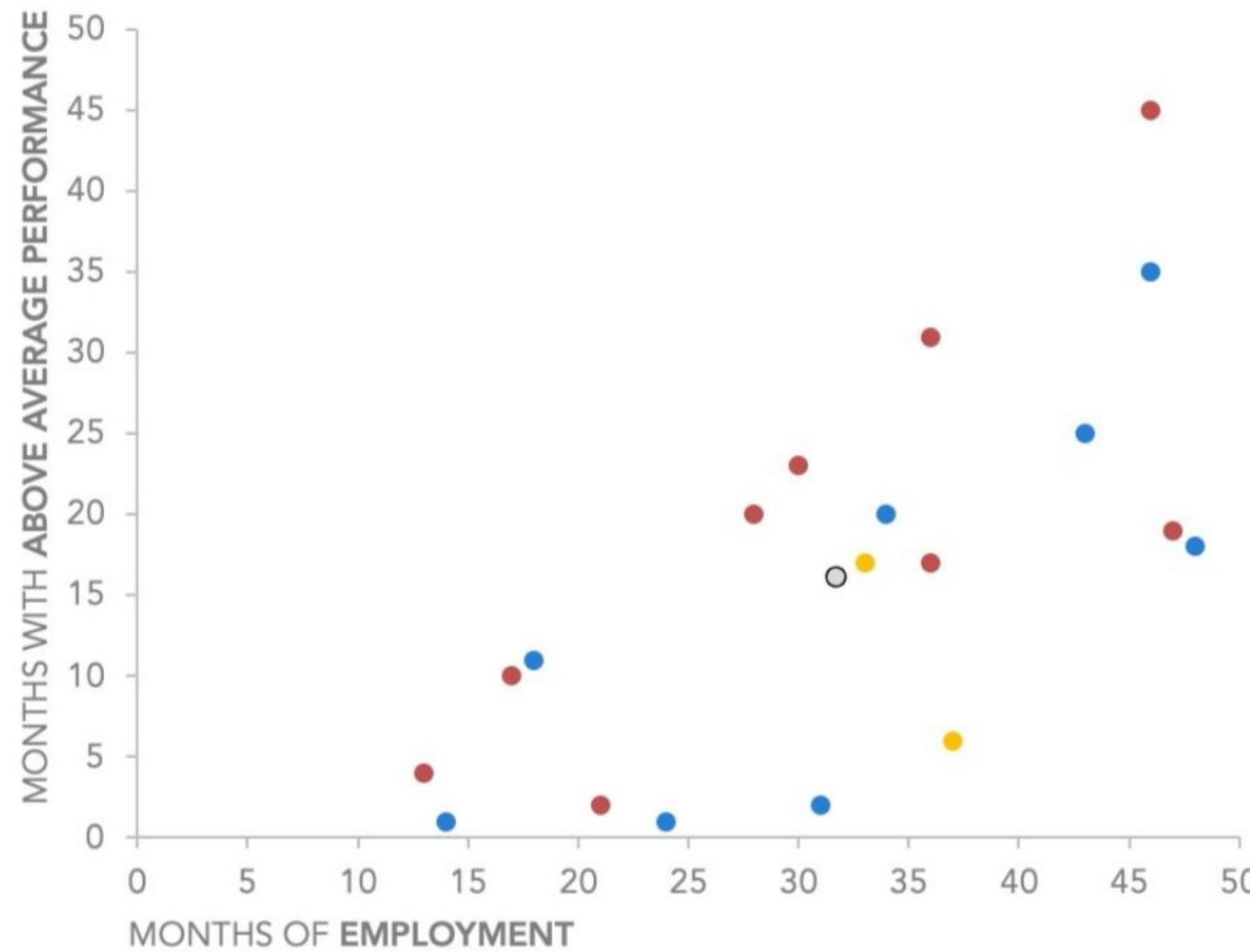
Good Data Visualization



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LEGEND

- Help in interpreting the visual.
- They explain the variables and the values they represent in the graphic

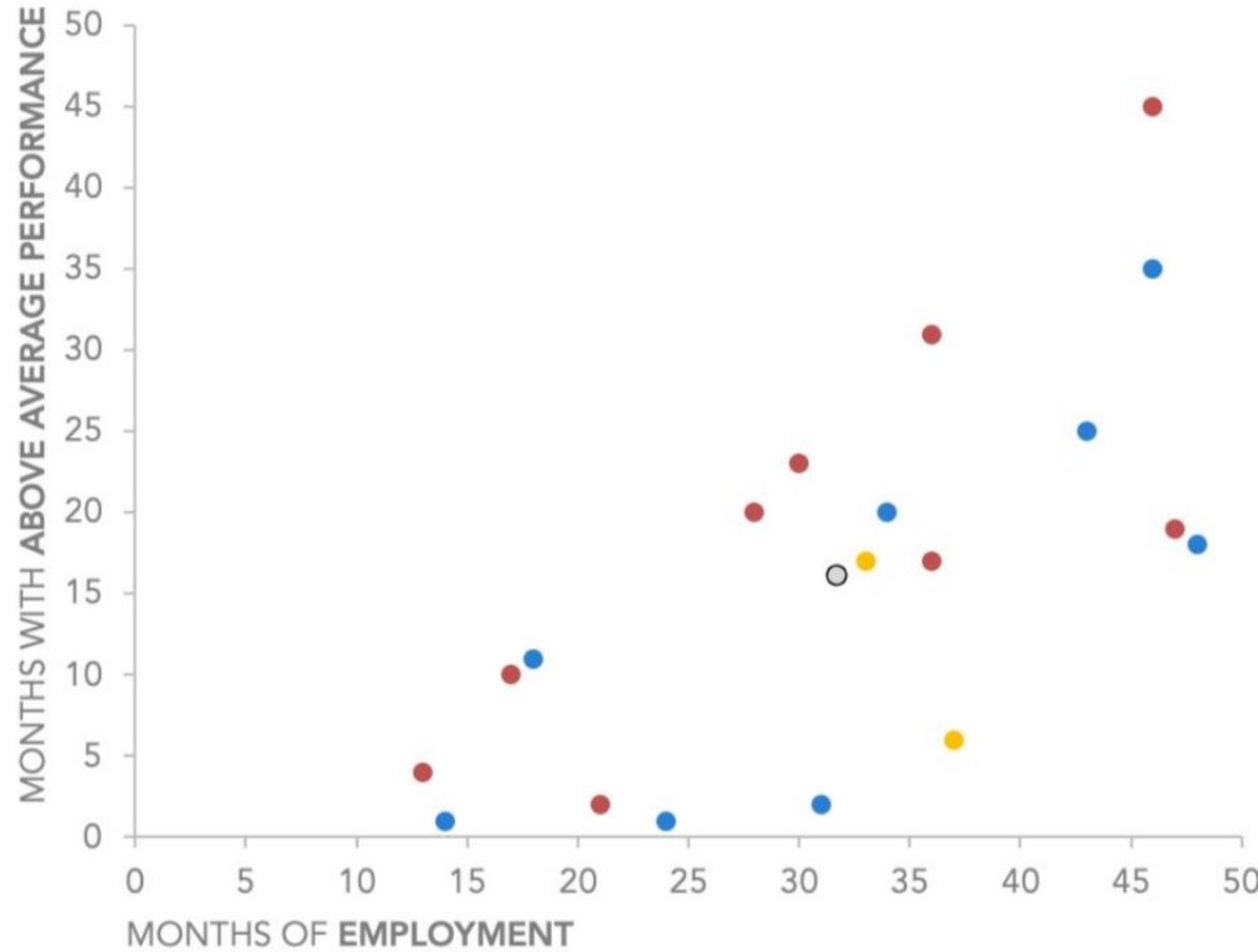
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COLOURS

- Represent data points
- Can also use texture, size, and shape

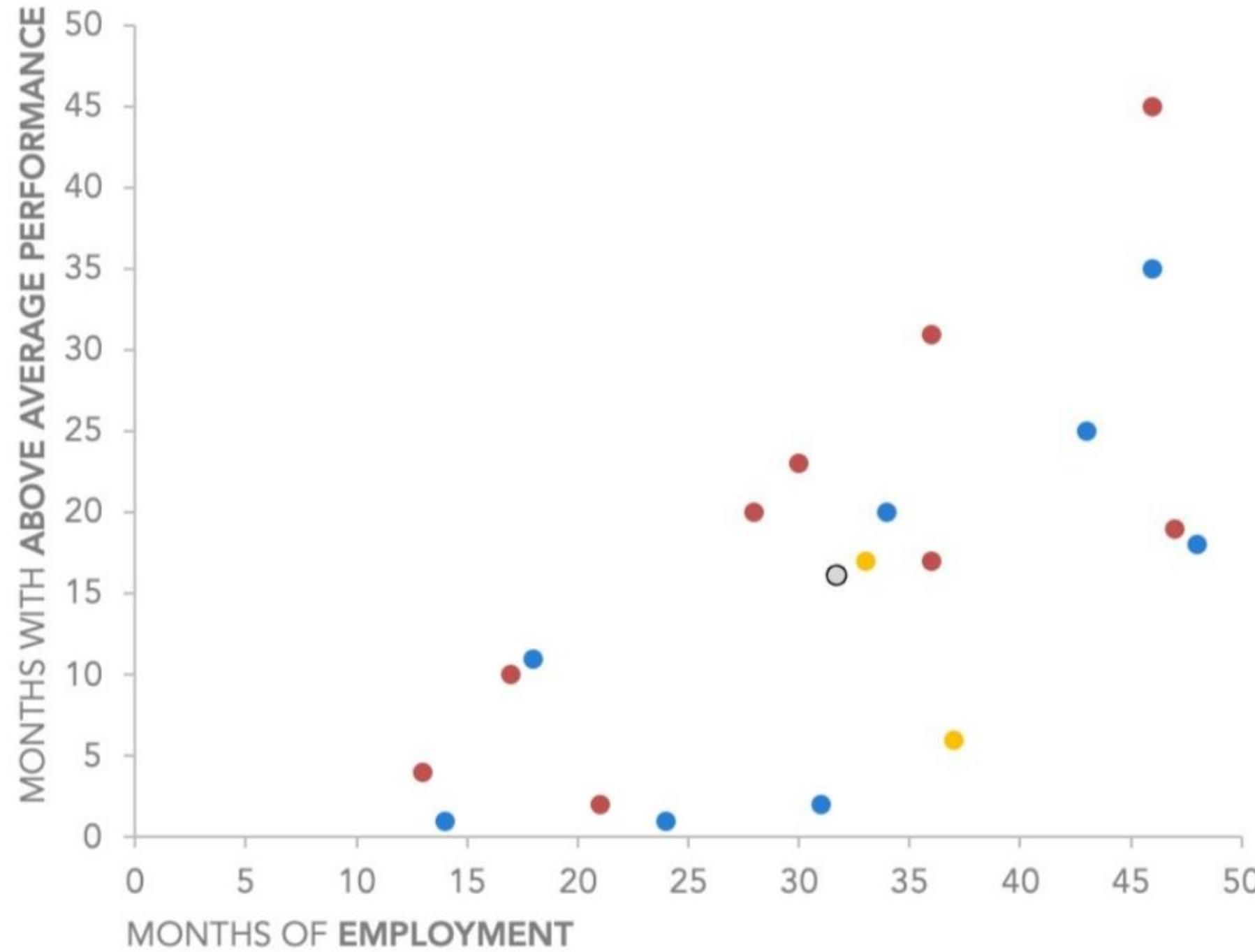
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AESTHETICS

- Neat graph
- No unnecessary use of colour or other visual elements
- Clearly labelled
- Conveys the relationship well

Data Visualizations



- Data visualizations are powerful tools in data analysis
- Help us understand and communicate data effectively
- They consist of key elements like titles, axes, legends, labels, and visual attributes.
- There are different types of visualizations like bar charts, line charts, and scatter plots.
- Choice depends on the data and the purpose of the visualization

Recap



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Introduction to the world of data
visualizations



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Thank you

